Special Issue

Investigation, Optimization, and Discussion of Turbulence

Message from the Guest Editors

Turbulence is often cited to be the last unsolved problem of classical mechanics due to its enormous complexity, emerging from the interactions of many coherent structures of different length scales and strengths. The energy transfer occurring through scales is responsible for the appearance of structures larger than the initial scale of energy input and for the heat input caused by kinetic energy dissipation during the turbulence decay process. Although this topic is very old, has been deeply studied over the centuries, and its detailed mechanisms are already understood, the prediction of turbulence behaviour under some specific conditions still needs to be experimentally or numerically analysed. Turbulence plays a very important role in energy production in areas from wind turbines through to heat exchangers, component cooling mechanisms, steam turbines, and pipe-flows. It also has effects on meteorology and the climate. Please accept this invitation to collect new observations, experiments, calculations, and theories in this Special Issue of *Energies*. For this, we invite experimenters, theoreticians, and numericians.

Guest Editors

Dr. Daniel Duda

Faculty of Mechanical Engineering, University of West Bohemia in Pilsen, Univerzitní 22, 306 14 Pilsen, Czech Republic

Dr. Vitalii Yanovych

Faculty of Mechanical Engineering, University of West Bohemia in Pilsen & Institute of Thermomechanics, Czech Academy of Sciences, Doleškova 5, 180 00 Prague, Czech Republic

Deadline for manuscript submissions

closed (5 April 2023)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/101480

Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

mdpi.com/journal/energies

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/journal/energies

About the Journal

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)